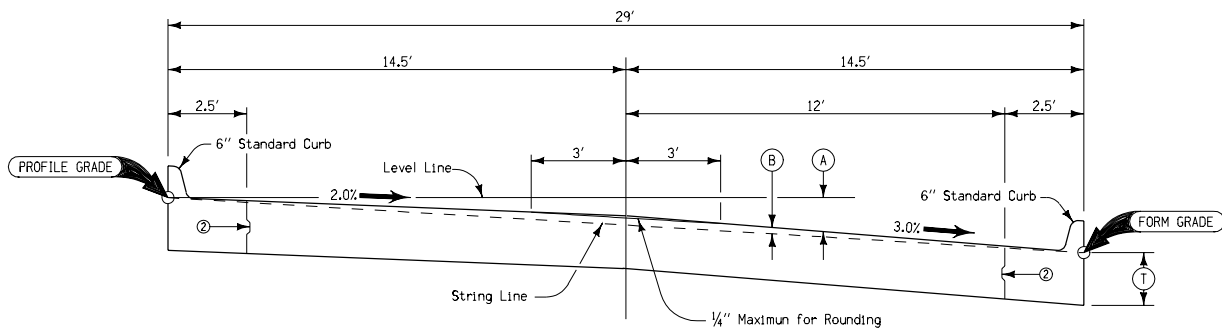


TYPICAL PAVEMENT PLAN



TYPICAL CROSS SECTION

| PER STATION DESIGN VALUES FOR (29' B-B) PAVEMENT SECTION (3) | | | | | | |
|--|----------|---------|---------|---------|---------|---------|
| ITEM | UNIT | T=6" | T=7" | T=8" | T=9" | T=10" |
| Section Area | Sq. Ft. | 15.00 | 17.417 | 19.833 | 22.25 | 24.667 |
| Concrete Volume | Cu. Yds. | 55.555 | 64.506 | 73.457 | 82.407 | 91.358 |
| Surface Area | Sq. Yds. | 322.222 | 322.222 | 322.222 | 322.222 | 322.222 |

OFFSETS FOR 29' PAVEMENT WITH 6" STANDARD CURBS

| Distance From C | 0.5' | 1.5' | 2.5' | 3.5' | 4.5' | 5.5' | 6.5' | 7.5' | 8.5' | 9.5' | 10.5' | 11.5' | 12.5' | 13.5' | 14.5' | 15.5' | 16.5' | 17.5' | 18.5' | 19.5' | 20.5' | 21.5' | 22.5' | 23.5' | 24.5' | 25.5' | 26.5' | 27.5' | 28.5' | 29.0' | | | | | |
|-----------------|--------|---------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| A | Inches | $\frac{1}{8}$ | $\frac{3}{8}$ | $\frac{5}{8}$ | $\frac{7}{8}$ | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{3}{8}$ | $1\frac{1}{2}$ | $1\frac{5}{8}$ | $1\frac{3}{4}$ | $1\frac{7}{8}$ | 2 | $2\frac{1}{4}$ | $2\frac{1}{2}$ | $2\frac{3}{4}$ | 3 | $3\frac{1}{4}$ | $3\frac{1}{2}$ | $3\frac{3}{4}$ | $4\frac{1}{4}$ | $4\frac{1}{2}$ | $4\frac{3}{4}$ | $4\frac{5}{8}$ | $5\frac{1}{4}$ | $5\frac{1}{2}$ | 6 | $6\frac{3}{8}$ | $6\frac{1}{2}$ | $7\frac{1}{8}$ | $7\frac{1}{4}$ | $7\frac{3}{8}$ | $8\frac{1}{8}$ | $8\frac{1}{2}$ | $8\frac{3}{4}$ |
| | Feet | 0.01 | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.13 | 0.15 | 0.17 | 0.19 | 0.21 | 0.23 | 0.25 | 0.27 | 0.29 | 0.32 | 0.35 | 0.38 | 0.41 | 0.44 | 0.47 | 0.50 | 0.53 | 0.56 | 0.59 | 0.62 | 0.65 | 0.68 | 0.71 | 0.725 | | | | |
| B | Inches | — | $\frac{1}{16}$ | $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | $1\frac{5}{8}$ | $1\frac{7}{8}$ | 2 | $2\frac{1}{8}$ | $2\frac{1}{4}$ | $2\frac{3}{8}$ | $2\frac{1}{2}$ | $2\frac{5}{8}$ | $2\frac{3}{4}$ | $2\frac{7}{8}$ | 3 | $3\frac{1}{8}$ | $3\frac{1}{4}$ | | | | |
| | Feet | 0.002 | 0.007 | 0.012 | 0.017 | 0.022 | 0.027 | 0.032 | 0.037 | 0.042 | 0.047 | 0.052 | 0.057 | 0.062 | 0.067 | 0.072 | 0.077 | 0.082 | 0.087 | 0.092 | 0.097 | 0.102 | 0.107 | 0.112 | 0.117 | 0.122 | 0.127 | 0.132 | 0.137 | 0.142 | 0.147 | | | | |

GENERAL NOTES:

Details indicated on the plan are intended to illustrate the general requirements for Two-lane P.C. Concrete Pavements 29.0' in width.

Refer to Standard Road Plans RH-50, 51 and 52 for details of construction of joints in pavement. Transverse Joints will be 'CD' except when 'C' joints are specifically required as a part of detail project plans or when T is less than 8".

Normal crown shall be a straight line sloped from the profile grade for the distance and rate indicated. This crown may be varied through superelevated curves and intersection areas where special shaping is required or other areas specifically authorized by the Engineer.

Unless specified otherwise in the detail project plans it is the contractor's option to construct 29' PCC pavement in one of the following options:

(A) Pour full 29' back to back section.

(B) Pour the center 24' of the 29' back to back section and then pour the 2.5' curb and gutter section separately.

The price bid for "Standard or Slip-Forn PCC pavement" class and thickness as specified, in sq. yds. Including all required joints, shall be considered full compensation for the construction of pavement as detailed hereon.

- (1) Transverse Joint spacing 20' (normal) for 'CD' joint (no dowel in outside 3.5' of pavement); 15' (normal) for 'C' joint.
- (2) Optional: 'BT-1' Joint if pavement thickness is less than 8". 'KT-2' Joint, if pavement thickness is 8" or greater.
- (3) Quantities include 6" curb.
- (4) Joints will be:
'L-1' or 'BT-1' for T less than 8".
'L-2' or 'KT-2' for T greater or equal to 8".

| | |
|--|---------------------------|
| Iowa Department of Transportation Highway Division | |
| STANDARD ROAD PLAN | RH-48 |
| REVISION: Remove skewed joints. | REVISION NO. 4 |
| APPROVED BY DESIGN METHODS ENGINEER | REVISION DATE 04-30-02 |
| NON-REINFORCED FOUR LANE 29' P.C. CONCRETE PAVEMENT DIVIDED ROADWAY | |